



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

DATE MAILED:

SEMAL NUMBER 05 FILING BATE 193 .

WINFERT NAMED INVENTOR

А АТТОРИВУДОСКЕТ NO.

15M2/0801

JOHN M. GENOVA HOECHST CELANESE CORPORATION

86 MORRIS AVENUE SUMMIT. NJ 07901 EXAMINER

SECCURO JR.C

ART PHIT PAPER NUMBER

08/0i/94

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

	•
This application has been examined Responsive to communication filed on 5-5-94	This action is made final.
A shortened statutory period for response to this action is set to expire month(s), da Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133	
Part I THE FOLLOWING ATTACHMENT(C) ARE PART OF THIS ACTION:	
1. X Notice of References Cited by Examiner, PTO-892. 2. Notice of Patent Drawing, PTO 3. X Notice of Art Cited by Applicant, PTO-1449. 5. Information on How to Effect Drawing Changes, PTO-1474. 6	ication, Form PTO-152
Part II SUMMARY OF ACTION	
1. X Claims 1-3,6-8 711-15	are pending in the application.
Of the above, claims 1-3, 11, 13+14 are	withdrawn from consideration.
2.	have been cancelled.
3. Claims	
4. XClaims 6-8, 12 4 15	are rejected.
5. Claims	are objected to.
6. Claims are subject to restriction	n or election requirement.
7. This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for example 1.85 which are acceptable 1.85 which acceptable 1.85 whi	nination purposes.
8. Formal drawings are required in response to this Office action.	
9. The corrected or substitute drawings have been received on Under 37 C.F. are acceptable not acceptable (see explanation or Notice re Patent Drawing, PTO-948).	R. 1.84 these drawings
10. The proposed additional or substitute sheet(s) of drawings, filed on has (have) been examiner. disapproved by the examiner (see explanation).	approved by the
11. The proposed drawing correction, filed on, has been _ approved disapproved.	ed (see explanation).
12. Acknowledgment is made of the claim for priority under U.S.C. 119. The certified copy has been recei	ived 🔲 not been received
been filed in parent application, serial no; filed on;	
13. Since this application appears to be in condition for allowance except for formal matters, prosecution as to accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.	the merits is closed in
14. Other	

Serial No. 08/120,105

Art Unit 1512

.....

6. 1

The restriction requirement made in the last office action is made final and claims 1-3 11, 13 and 14 are withdrawn from consideration as being directed to a non-elected invention.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 6-8, 12 and 15 are rejected under 35 U.S.C. § 102(b) as anticipated by or, in the alternative, under 35 U.S.C. § 103 as obvious over EP 0310734 (EP '734).

Claims 6-8, 12 and 15 are rejected under 35 U.S.C. § 103 as being unpatentable over EP0128046 (EP '046) and WO 90/03414 (WO '414) optionally further taken with EP 0351189 (EP '189).

Claim 12 is rejected under 35 U.S.C. § 102(e) as anticipated by or, in the alternative, under 35 U.S.C. § 103 as obvious over Schreck et al. "902 and '074.

Serial No. 08/120,105 Art Unit 1512

Schreck et al. '902 and '074 teach a propylene polymer molding composition prepared by direct polymerization wherein the composition has polymers with MPS (melting points) which differ within the range set forth in applicants claim 12 and claim 12 as broadly set forth is not seen to recite process parameters which otherwise distinguish over those references. (Se e.g the working Examples in the references).

EP '734 discloses a process for preparing a polyolefin composition (e.g. propylene polymer) in the presence of a catalyst comprising at least two different metallocene catalysts, such as Z, T_1 and Hf containing metallocene catalysts and an aluminoxane such as claimed. Though the reference is primarily concerned with obtaining compositions having a multimodal mol. wgt., it is not clear that inherently products within the reference process are not obtained which also have different melting points (MPS) wherein the MPS differ by at least 5°C. Note e.g. the Table 1, wherein the product of Ex B, Hf containing catalyst only had a MP° of 143°C and the products of Exs C & D with only the Zr containing catalyst had MPS of 137° and 138°C. It would at least be considered that it would be prima facie obvious to obtain mixtures of polymers with PMS within the scope of applicants claims by practicing the process of EP '734 within the scope of its teachings.

Serial No. 08/120,105 Art Unit 1512

EP '046 discloses the production of polyolefin, e.g. E polymer, compositions utilizing a catalyst system comprising at least two different metallocene catalyst, e.g. containing a Group of metal which includes Zr, T, and Hf, and aluminoxane. The reference teaches that the reactor blends can yield mixtures of polymers having different properties such as MP°, mol. wgt., density, comonomer content, etc.

Wo '414 teaches E polymer blends which can have different comonomer contents which are prepared with a catalyst system comprising aluminoxane and metallocene (e.g. Zn, Ti or Hf containing) wherein the blends can be prepared by directed polymerization in a single reactor using two or more catalysts. (See e.g. pages 4, 8,12-18 and the Figs. and Exs). Inherently the E polymers with different comonomer contents would have different MPS.

EP '189 teaches mixtures of E polymers having different MPS within those such as claimed so as to provide for the manufacture of films having improved properties for certain applications.

Though the MPS of the polymers in the mixtures produced in EP '046 and WO '414 are not set forth, it wold be considered obvious and within the scope of the teachings of those references to produce polymer mixtures wherein them polymers have MPS which differ by amounts such as to be within the scope of applicants claims, especially in view of the teachings in EP '189 which

Serial No. 08/120,105 Art Unit 1512

\$4.....

teaches the desireablity of employing E polymer mixtures with MPS within those claimed in certain film applications. Applicants other claimed MP° limitations, e.g. pertaining melting peak height and width, are considered to follow from the MP° difference and be inherent in the polyolefin mixtures taught or suggested by the references.

Any additional or particular claim parameters which may not be specifically set out in the references are considered to be inherent in the reference products or not to involve anything unobvious absent a showing to the contrary.

Claim 12 is rejected under 35 U.S.C. § 112, first and second paragraphs, as the claimed invention is not described in such full, clear, concise and exact terms as to enable any person skilled in the art to make and use the same, and/or for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 12 fails to recite the catalyst employed and the polymerization conditions; applicants specification as to the embodiment presently at hand teaches at least two different metallocene catalyst systems and polymerization conditions as set forth e.g. in claim 6.

Seccuro/maj July 26, 1994

CARMAN J. SECCLEO, JR. PRIMARY EXAMINER GROUP 159

Jaman Seccus